

METHODS AND APPARATUS FOR MEASURING
NAVIGATIONAL PARAMETERS OF A
LOCOMOTIVE

ABSTRACT OF THE DISCLOSURE

The present invention, in one aspect, is a method for determining motion and/or location parameters of a locomotive. One method embodiment includes steps of phase locking a pair of receivers having antennas at different locations on a locomotive to reference signals received from a set of satellites, determining a set of phase differences between the reference signals received at the antennas, and determining at least one of an accurate heading, heading rate, attitude, and attitude rate of the locomotive using the set of phase differences between the reference signals.

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